

# EXHIBIT A

turning your concepts into reality...

# NIAGARA DESIGN

## The Scatter Works

Deposition Chamber

110-003

Filename: SW310 assembly list.xls

Date: 06-Aug-99

110-007

Fabricated Metallic Parts List

110-001

Fiducial Alignment Bar

Wiper Contact Pin

Insulated Spacer

X

X

X

Made to instead for spacers

Frame  
Parts

Renake in Design

Renake in Part also

PART NUMBER	QTY REQ	PART DESCRIPTION	DWG RELEASED	Parts Completed
SW210-001		Front Horizontal Member	Not Req'd	
SW210-002		Bottom Corner Member	Not Req'd	
SW210-003		End Cross Member	Not Req'd	
SW210-004		Back Vertical Member	Not Req'd	
SW210-005		Lower Center Support	Not Req'd	
SW210-006		Caster Base Plate	Not Req'd	
SW210-007		Leveling Foot Mount	Not Req'd	
SW210-008		Leveling Pad Thd Rod	Not Req'd	
SW210-009		Top Corner Member	Not Req'd	
SW210-010		Stainless Steel Panel		
SW210-011		Wafer Chuck	YES	X
SW210-012		Wafer Vacuum Pad	YES	X
SW210-013		Bearing Housing	YES	X
SW210-014		Rotor Shaft	YES	X
SW210-015		Stage Carriage	YES	
SW210-016		Stage Timing Pulley	YES	X
SW210-017		Vacuum Rotary Union	YES	X
SW210-018		Rotary Union Bracket	YES	X
SW210-019	6	Point Contact	YES	✓
SW210-020		Dial Wheel Shaft	YES	X
SW210-021		Dial Timing Pulley	YES	X
SW210-022		Top Cover	YES	
SW210-023		Front Top Panel		
SW210-024		Front Bottom Panel		
SW210-025		Lower Side Panel		
SW210-026		Dial Bearing Housing	YES	X
SW210-027		Dial Shim	YES	
SW210-028		Chamber Base	YES	
SW210-029		Chamber Left Side	YES	
SW210-030		Chamber Right Side	YES	

26, spot chamber 4 for Full Chamber have Zextra

SW210-031	1	Chamber Back	YES	
SW210-032	1	Chamber Top	YES	
SW210-033	1	Chamber Front	YES	
SW210-034	4	Linear Bearing Block	YES	X
SW210-035	6	Guide Shaft Mount	YES	X
SW210-036		Guide Shaft	YES	
SW210-037	1	Dial	YES	
SW210-038	1	Linear Detent	YES	
SW210-039	1	Linear Detent Arm	YES	X
SW210-040	1	Linear Detent Post	YES	X
SW210-041	1	Linear Detent Base	YES	X
SW210-042	1	Linear Stage Detent Block	YES	
SW210-043	1	Detent Block Spacer	YES	
SW210-044	1	Rotary Detent	YES	
SW210-045	8	Frame Butt Fastener	YES	X
SW210-046	4	Linear Bearing Spacer	YES	X
SW210-047	1	Spring Bracket	YES	
SW210-048	1	Spring Retainer Pin	YES	X
SW210-049		Center Frame Member	Not Req'd	
SW210-050	1	Detent Arm Bearing	YES	
SW210-051	1	Particle Shield	YES	X
SW210-052	4	Particle Shield Standoff	YES	
SW210-053	3	Front Guide Shaft Mount	YES	
SW210-054		Chamber 2 Base		
SW210-055		Chamber 2 Back		
SW210-056		Chamber 2 Top		
SW210-057		Chamber 2 Front		
SW210-058		Chamber 2 Left Side		
SW210-059		Chamber 2 Right Side		
SW210-060		Linear Stage Carriage		
SW210-061		Guide Shaft		
SW210-062		Sheath Housing		
SW210-063		Sheath Plate		
SW210-064	1	Detent Plunger	YES	
SW210-065	1	Plunger Bushing	YES	
SW210-066	1	Rotary Stop	YES	
SW210-067	1	Rotary Position Indicator	YES	
SW210-068	1	Linear Scale	YES	
SW210-069		Chamber 2 Front Top		
SW210-070				
SW210-071				
SW210-072				
SW210-073				

Chamber 2

Chamber 1